

Claims

1. **(currently amended)** A lithographic printing ink composition, ~~characterized in that said composition comprises~~ comprising an organic pigment, an organic dyestuff soluble in an organic solvent (solvent dye), a printing ink varnish (ink vehicle) and a solvent, the printing ink varnish being mixed or coloured with the solvent dye either prior to or during pigment dispersion.

2. **(currently amended)** The composition as claimed in claim 1, ~~characterized in that wherein~~ said organic dyestuff is a solvent dye selected from the group consisting of C.I. Solvent Red 1, 19, 23, 24, 25, 26, 27, 29, 49, 52, 111, C.I. Solvent Blue 14, 35, 36, 59, 78, C.I. Solvent Yellow 7, 14, 33, 72, 94, 114, C.I. Solvent Orange 1, 2, 7, and mixtures thereof, ~~preferably selected from the group consisting of C.I. Solvent Red 19, 23, 24, 25, 26, 27, 29 and mixtures thereof.~~

3. **(currently amended)** The composition ~~as claimed in~~ according to claim 1 ~~or 2~~, characterized in that said organic pigment is a disazo or a naphthol pigment.

4. **(currently amended)** The composition according to claim 1, ~~any one of claims 1 to 3~~, wherein the pigment and solvent dye are present in a pigment/solvent dye ratio of from 95/5 to 30/70. ~~is (99-1) : (1-99), preferably (98-10) : (2-90), and most preferred (95-30) : (5-70).~~

5. **(currently amended)** The composition according to claim 4, ~~any one of claims 1 to 3~~, wherein the pigment/solvent dye ratio is from 95/5 to 65/35. ~~(95-65) : (5-35).~~

6. **(currently amended)** The composition according to claim 1 ~~any one of claims 1 to 5~~, which comprises a mixture of solvent dyes and/or a mixture of organic pigments.

7. **(cancelled)**

8. **(currently amended)** A composition according to claim 1 which is a ~~The pigmented lithographic printing ink according to claim 7~~, which comprises an organic pigment and a solvent dye in a total amount of 0.1-70%, ~~preferably 2 to 55%~~, by weight based on the total weight of the pigmented lithographic printing ink, and the remainder being printing ink varnishes, solvents and other customary additives.

9. **(currently amended)** The pigmented lithographic printing ink according to claim ~~[[s 7 or]]~~ 8, which is a ready-to-use lithographic printing ink and which comprises the organic pigment and the solvent dye in a total amount of 2 to 20%, ~~preferably 12 to 18%,~~ by weight based on the total weight of the pigmented lithographic printing ink.

10. **(currently amended)** A pigmented lithographic printing ink according to claim ~~[[s 7 or]]~~ 8, which is an ink concentrate and which comprises the organic pigment and the solvent dye in a total amount of 20 to 70%, ~~preferably 20 to 55%,~~ by weight based on the total weight of the pigmented lithographic printing ink.

11. **(currently amended)** The pigmented lithographic printing ink according to claim 8 ~~any one of claims 7 to 10,~~ which comprises as printing ink varnishes blends of high boiling distillates and/or vegetable oils, high wetting alkyd resins, highly structured alkyd resins, ~~and vegetable resins, and mixtures thereof;~~ or monomers/oligomers/polymers that can be cured by UV-radiation.

12. **(currently amended)** A process for the preparation of pigmented lithographic printing inks according to claim 8 ~~any one of claims 7 to 11,~~ which comprises incorporating either the pigment/solvent dye composition or the pigment and the solvent dye separately into a printing ink varnish, or one of its components, by shear rate- or heat-inducing methods, and optionally combining the pigment/solvent dye loaded components with the other components of the varnish.

13. **(cancelled)**

14. **(currently amended)** A process for the preparation of pigmented lithographic printing inks according to claim 8 ~~any one of claims 7 to 11,~~ which comprises incorporating the solvent dye as solid or solution in an organic solvent to the finished printing ink, optionally followed by heating.

15. **(currently amended)** A process for the preparation of pigmented lithographic printing inks according to claim 8 ~~any one of claims 7 to 11,~~ which comprises the flushing of presscakes of pigment or pigment/dye mixtures into a varnish medium or a pre-dyed varnish medium.

16. **(currently amended)** A lithographic printing process which comprises printing a flat substrate with the pigmented lithographic printing inks according to claim 8. ~~any one of claims 7 to 11 or with the pigmented lithographic printing inks prepared according to the processes of claims 12 to 15.~~

17. **(currently amended)** A composition according to claim 1 which is a lithographic printing ink colourant, which comprises a solvent, an organic pigment and an organic dyestuff soluble in an organic solvent (solvent dye), wherein the organic pigment is coated with a printing ink varnish (ink vehicle), and the printing ink varnish being mixed or coloured with the solvent dye either prior to or during pigment processing.

18. **(original)** The colourant according to claim 17, which comprises the organic pigment and the solvent dye in a total amount of 60 to 95%, by weight, and 40 to 5%, by weight, of printing ink varnishes (ink vehicles), solvent and other customary additives.

19. **(currently amended)** The colourant according to claim 17, wherein the pigment and solvent dye are present in a pigment/solvent dye ratio of from 95/5 to 30/70. the pigment/solvent dye ratio is (99-1) : (1-99), preferably (98-10) : (2-90), and most preferred (95-30) : (5-70).

20. **(currently amended)** The colourant according to claim 17, wherein the pigment/solvent dye ratio is from 95/5 to 65/35. (95-65) : (5-35).

21. **(currently amended)** A pigmented lithographic printing ink, which comprises the colourant **[[s]]** according to claim 17. any one of claims 17 to 20.

22. **(currently amended)** A process for the preparation of the lithographic printing ink colourants according to claim 17 any one of claims 17 to 20 which comprises

- (a) incorporating the printing ink varnish, which is premixed or coloured with the solvent dye, into an aqueous slurry of the organic pigment, isolating, and optionally drying it, or
- (b) adding the printing ink varnish to an aqueous slurry of the solvent dye and then combining it with an aqueous slurry of the organic pigment, isolating, and optionally drying it, or
- (c) adding the printing ink varnish to an aqueous slurry of a solvent dye/organic pigment combination, isolating, and optionally drying it.